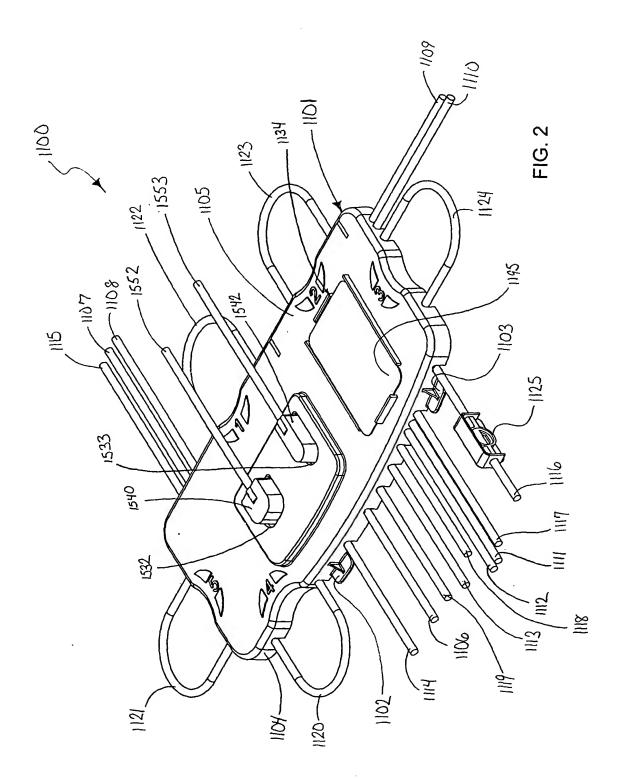


FIG. 1

DOCKET NO.: THR5007 Sheet 2 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

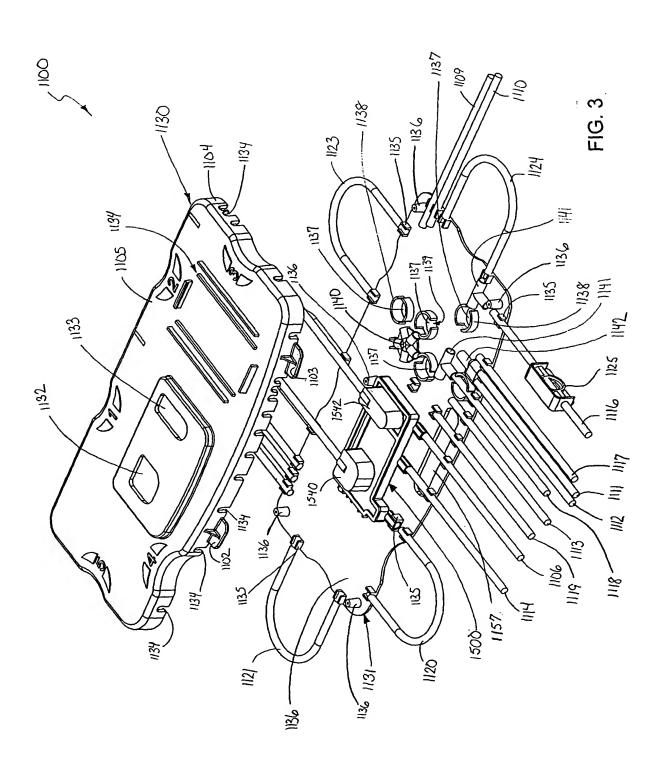
Filing Date: Herewith Attorney: Michael B. Fein, 25,333

Atty Phone 215 665-4622 .

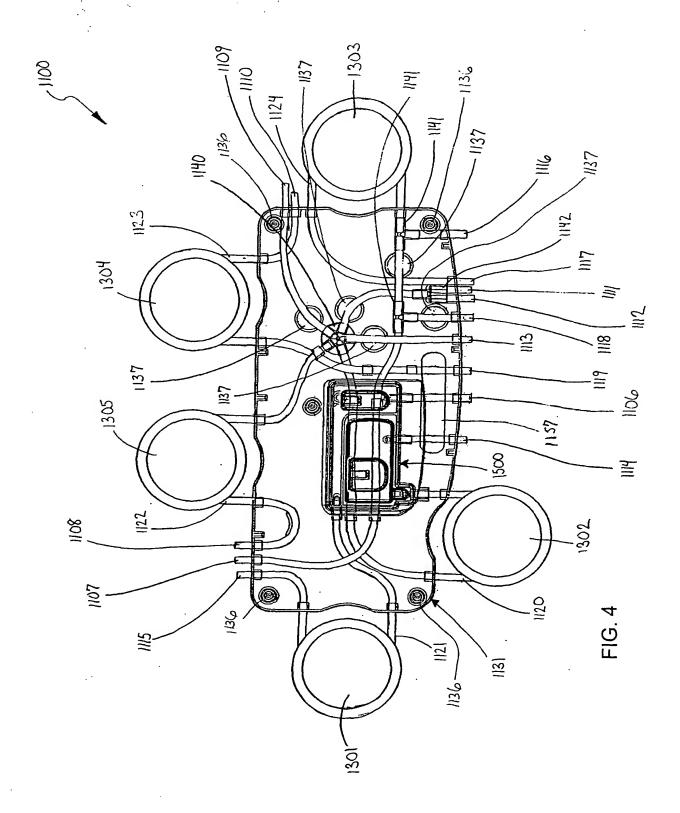


DOCKET NO.: THR5007 Sheet 3 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333



DOCKET NO.: THR5007 Sheet 4 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622



DOCKET NO.: THR5007 Sheet 5 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

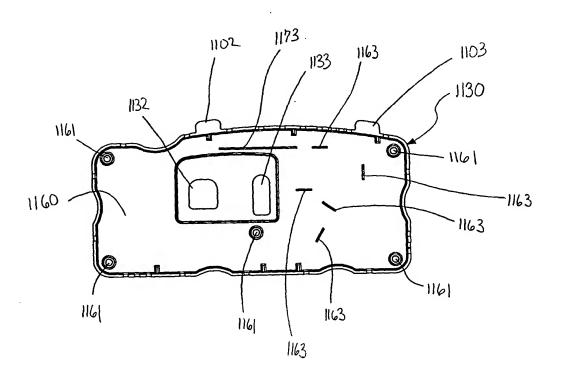


FIG. 5

DOCKET NO.: THR5007 Sheet 6 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME Filing Date: Herewith Attorney: Michael B. Fein, 25,333

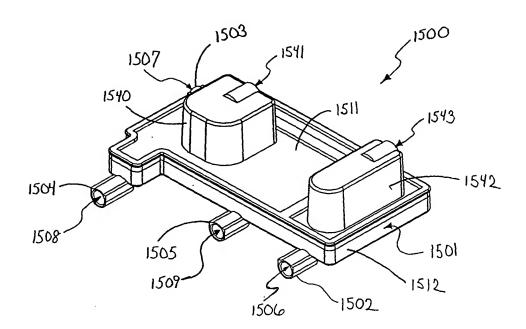
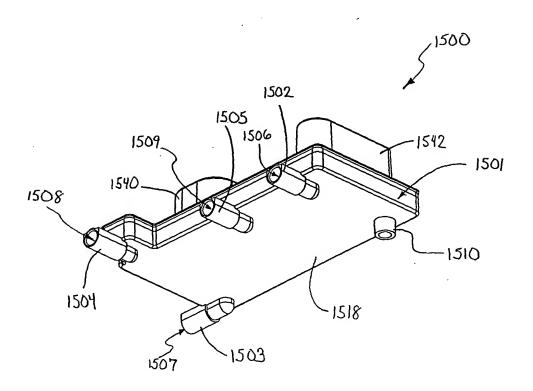


FIG. 6

DOCKET NO.: THR5007 Sheet 7 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

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DOCKET NO.: THR5007 Sheet 8 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

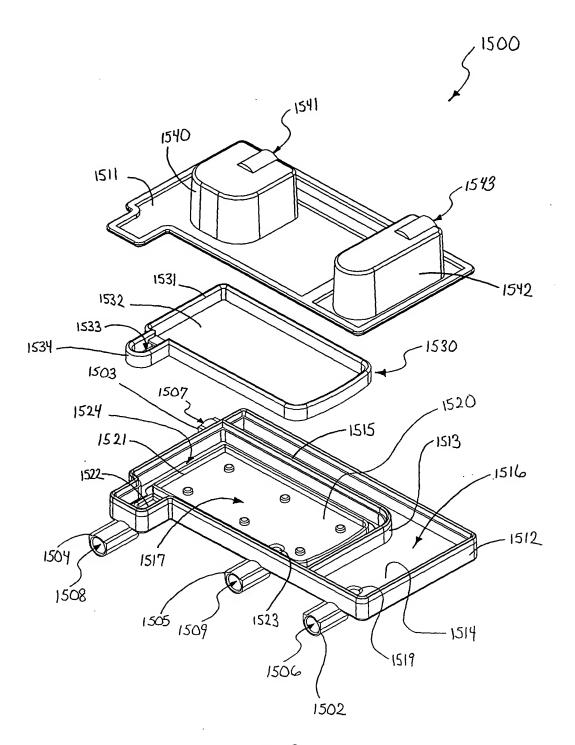


FIG. 8

DOCKET NO.: THR5007 Sheet 9 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME Filing Date: Herewith Attorney: Michael B. Fein, 25,333

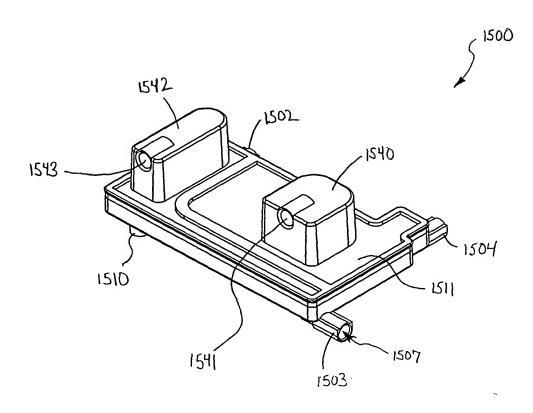


Figure 9

DOCKET NO.: THR5007 Sheet 10 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott F. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME Filing Date: Herewith Attorney: Michael B. Fein, 25,333

Atty Phone 215 665-4622

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Figure 10

DOCKET NO.: THR5007 Sheet 11 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622

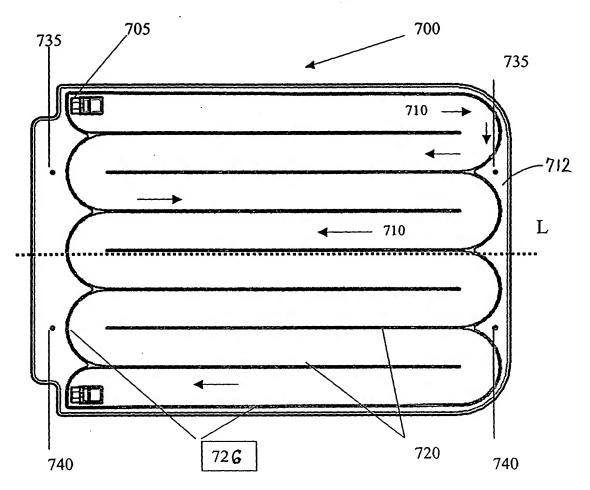


FIG. 11

DOCKET NO.: THR5007 Sheet 12 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

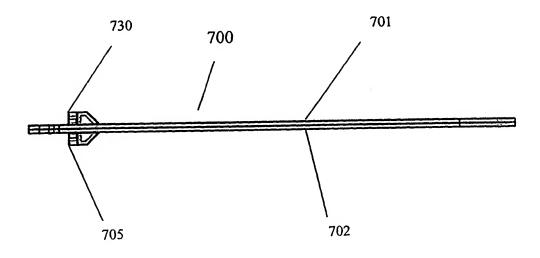


FIG. 12

DOCKET NO.: THR5007 Sheet 13 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

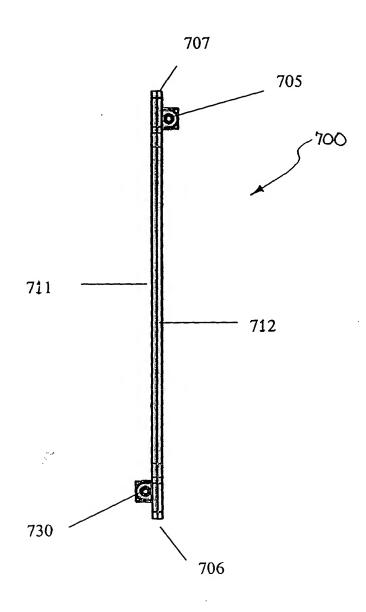


FIG. 13

DOCKET NO.: THR5007 Sheet 14 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

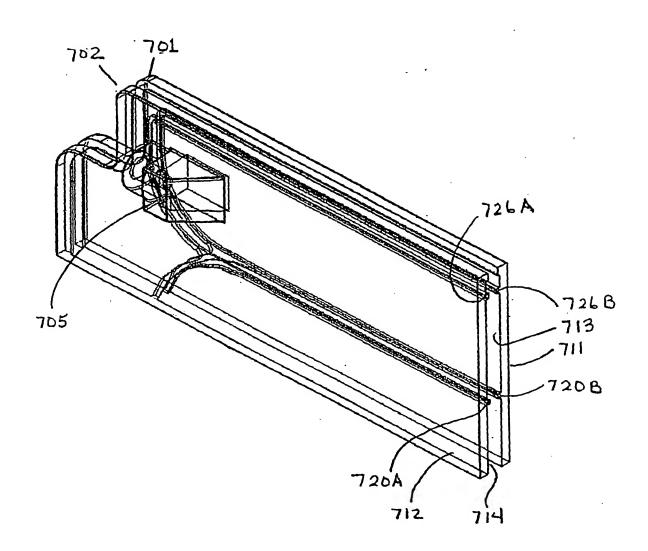


FIG. 14

DOCKET NO.: THR5007 Sheet 15 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622

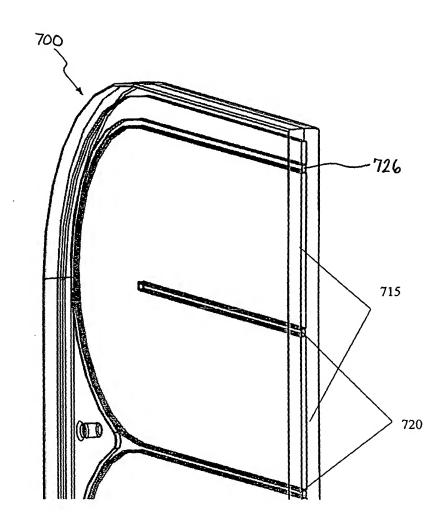


FIG. 15

DOCKET NO.: THR5007 Sheet 16 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622

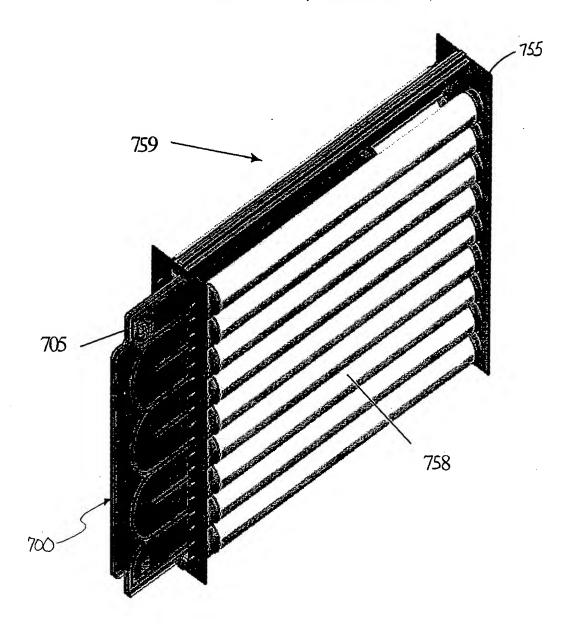


FIG. 16

DOCKET NO.: THR5007 Sheet 17 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,

Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

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Filing Date: Herewith Attorney: Michael B. Fein, 25,333

Atty Phone 215 665-4622

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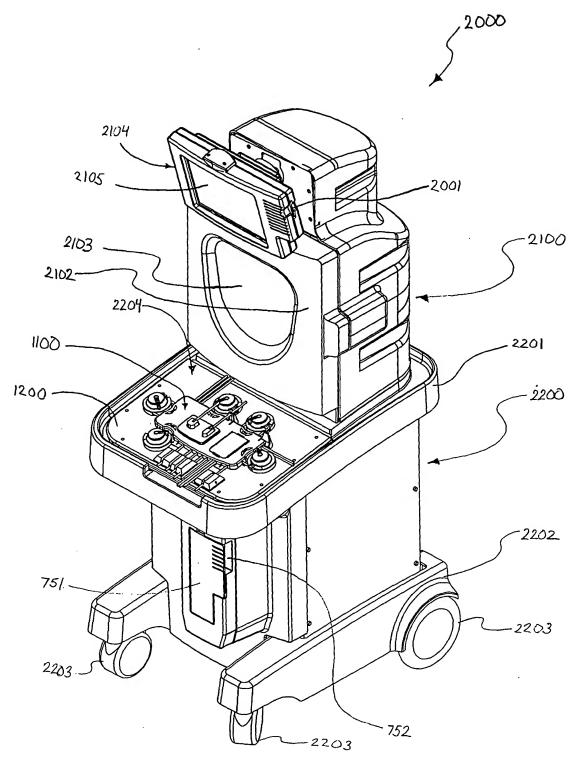


Figure 17

DOCKET NO.: THR5007 Sheet 18 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

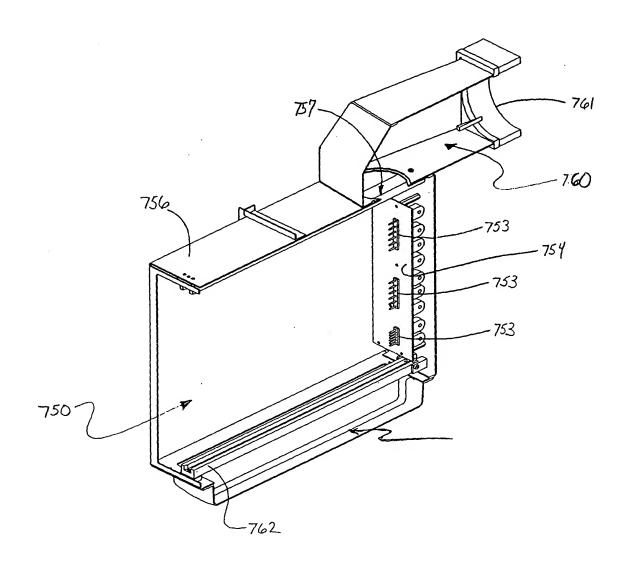


Figure 18.

DOCKET NO.: THR5007 Sheet 19 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

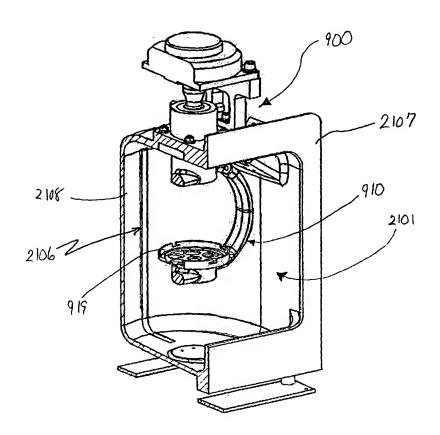


Figure 19

DOCKET NO.: THR5007 Sheet 20 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

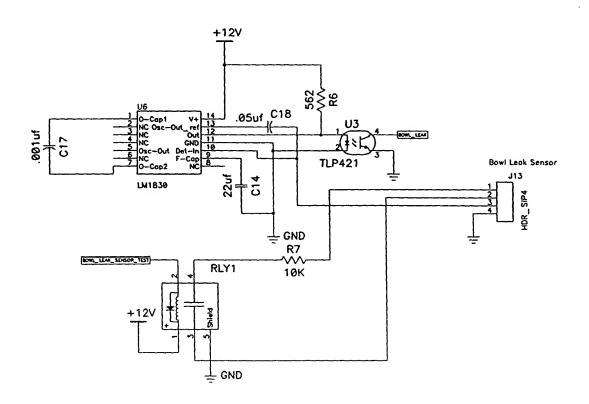


Figure 20

DOCKET NO.: THR5007 Sheet 21 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

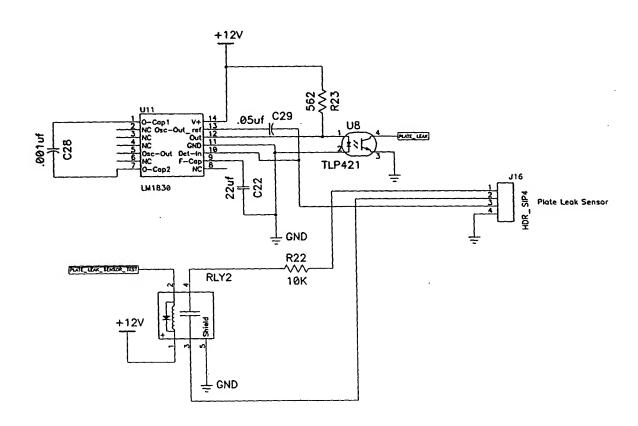
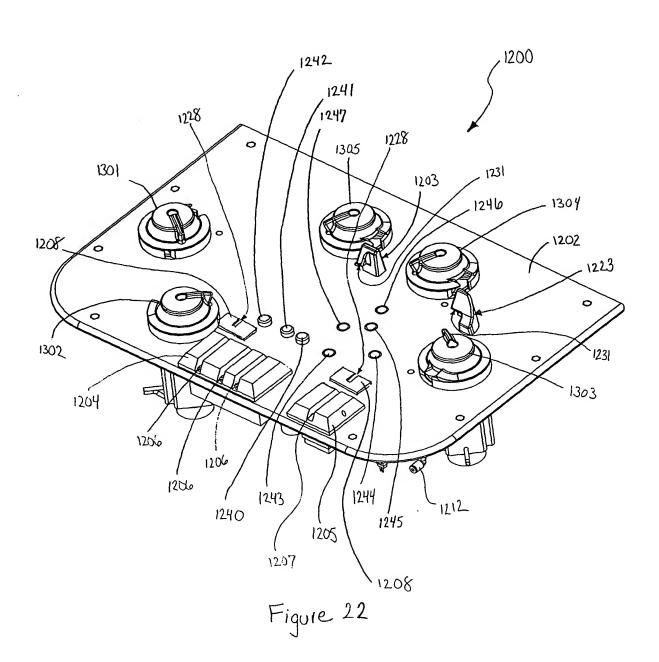


Figure 21

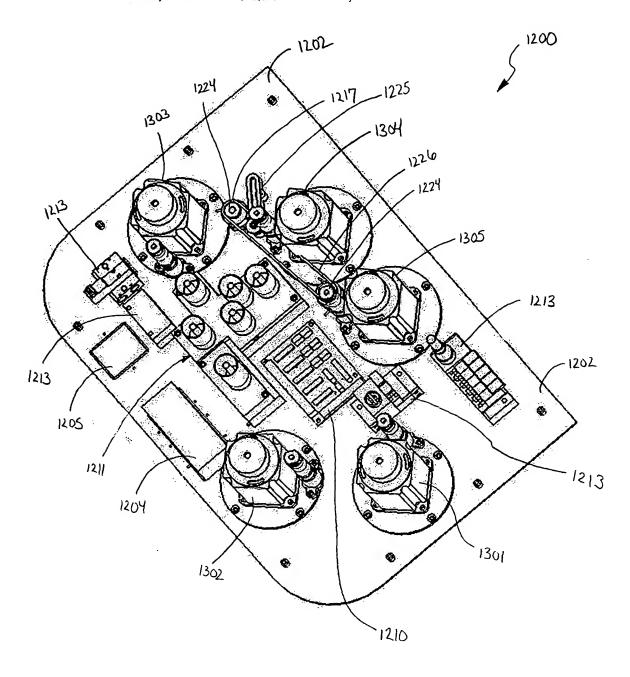
DOCKET NO.: THR5007 Sheet 22 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333



DOCKET NO.: THR5007 Sheet 23 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333



DOCKET NO.: THR5007 Sheet 24 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

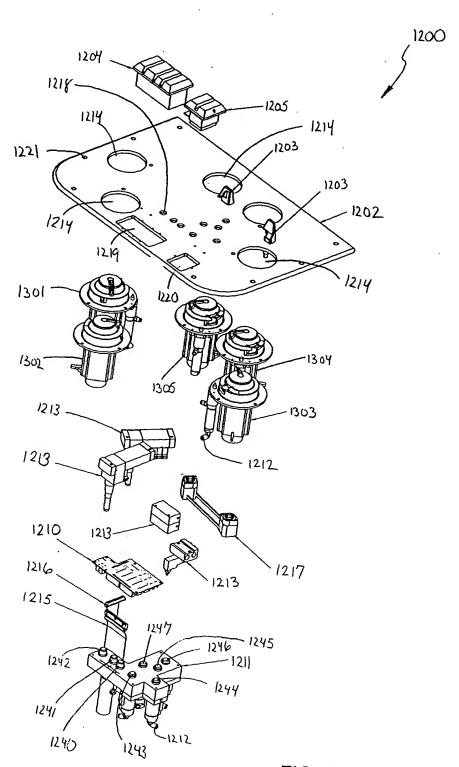
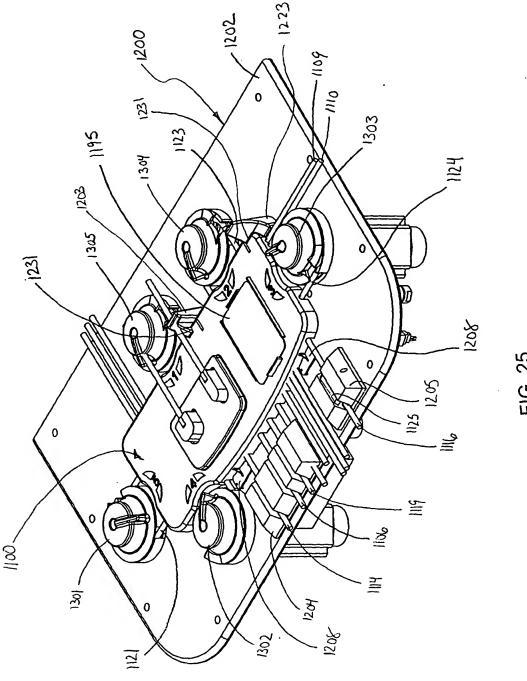


FIG. 24

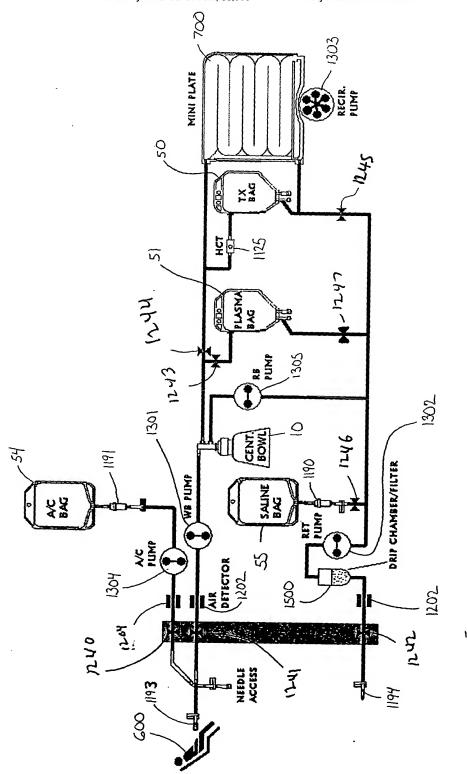
DOCKET NO.: THR5007 Sheet 25 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622



Sheet 26 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, DOCKET NO., THR5007 Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME Filing Date: Herewith Atty Phone 215 665-4622 Attorney: Michael B. Fein, 25,333 START 1400 TURN OFF RED TURN OFF CELL PUMP & RETURN CENTRIFUGE & OPEN FLUID TREATED CELLS **INLET PUMP &** TO PATIENT PATH TO AC PUMP @ KVO TREATMENT USING RETURN PRIME WITH RATE **PUMP** BAG & HCT SALINE AND AC 1415 SENSOR 1424 <u>1401</u> <u>1410</u> **END** <u>1425</u> EFFLUENT PATH HOT SENSOR TO PLASMA BAG DETECTS CENTRIFUGE ON RED CELLS 1416 1402 1411 FIG. 26 YES PUMP BLOOD-AC TO RED CELL PUMP NOTHER CENTRIFUGE AC RATE @ 75 ML/ CYCLE PUMP @ 1:10 BLOOD NO <u>1412</u> MIN PUMP SPEED <u>1417</u> 1403 YES. RETURN TURN ON CENTRIFUGE RECIRC PUMP COLLECTED EFFLUENT PATH TO AND PHOTO-VOL. > 150ml PLASMA BAG AND **ACTIVATION** 1404 INCREASE RED CELL LAMPS PUMP RATE TO THE <u>1418</u> YES INLET PUMP RATE 1413 RETURN PUMP @ COLLECTION BOWL EMPTY PUMP SPEED 1405 <u>1419</u> NO RED CELLS DETECTED NO <u>1414</u> YES ED CELLS YES TURN RED CELL DETECTED NO **PUMP OFF** 1406 1420 YES RED CELL PUMP ASMA BAG @ 35% INLET PUMP SPEED **EMPTY** 1421 1407 YES CONTROL RATE TO MAINTAIN CELL LINE TURN OFF AT INTERFACE PATIENT LEVEL RETURN PUMP 1408 <u>1422</u> COLLECTION CYCLE **Ф**НОТО VOLUME **ACTIVATION** REACHED NO COMPLETE 1409 1423 YES YES

DOCKET NO.: THR5007 Sheet 27 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333



DOCKET NO.: THR5007 Sheet 28 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

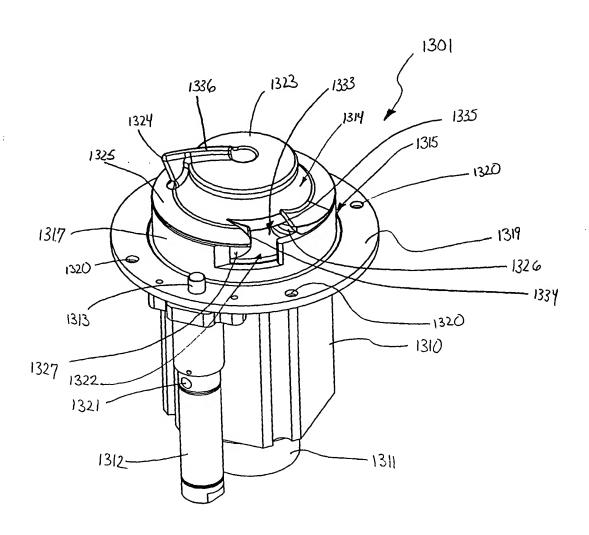


FIG. 28

DOCKET NO.: THR5007 Sheet 29 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

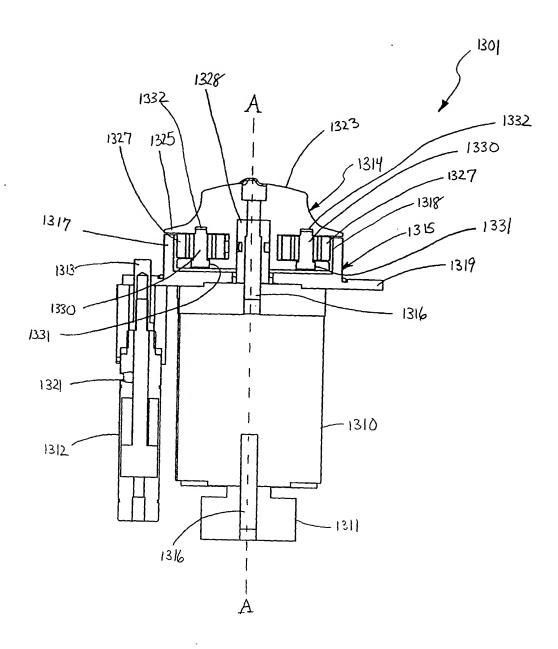


FIG. 29

DOCKET NO.: THR5007 Sheet 30 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

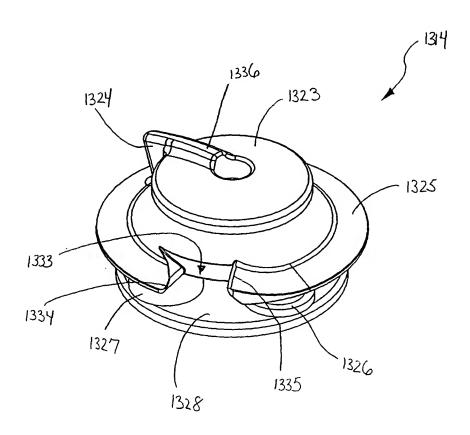


FIG. 30

DOCKET NO.: THR5007 Sheet 31 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333

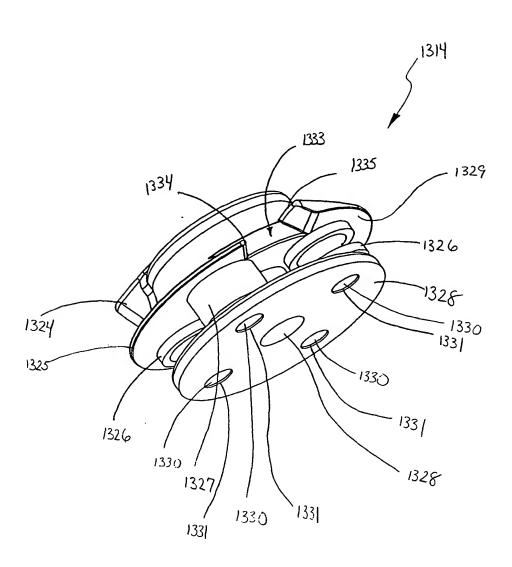


FIG. 31

DOCKET NO.: THR5007 Sheet 32 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

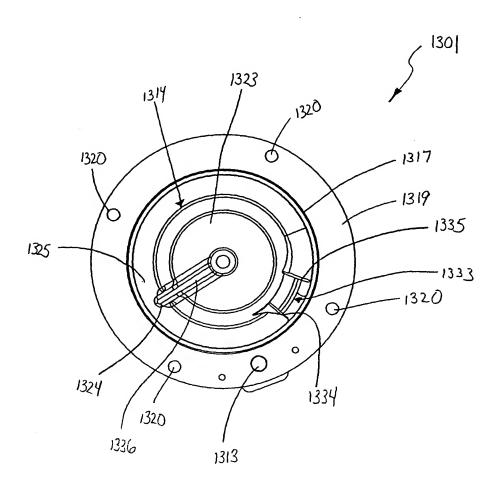


FIG. 32

DOCKET NO.: THR5007 Sheet 33 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

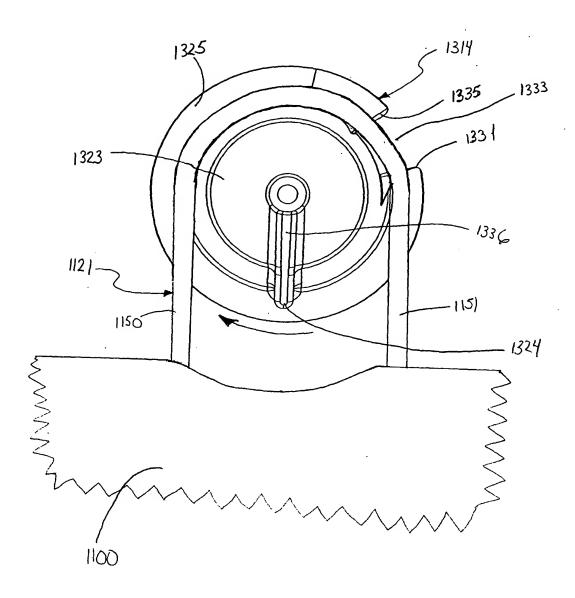
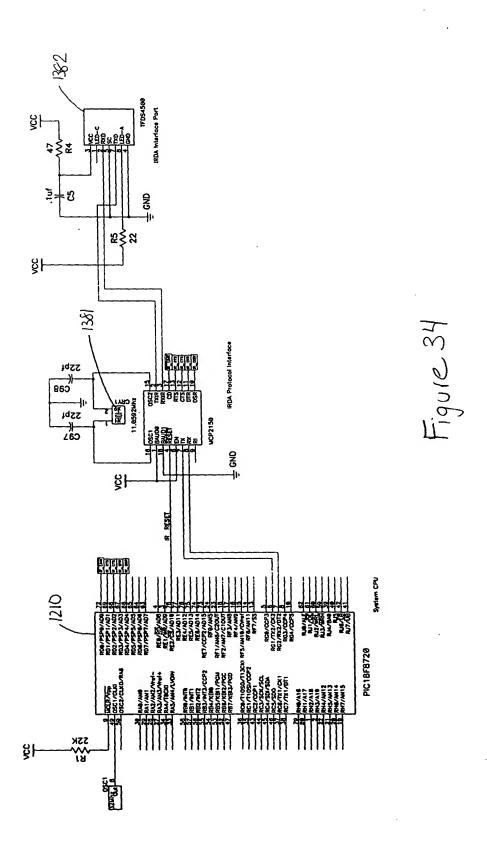


Figure 33

DOCKET NO.: THR5007 Sheet 34 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333



DOCKET NO.: THR5007 Sheet 35 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

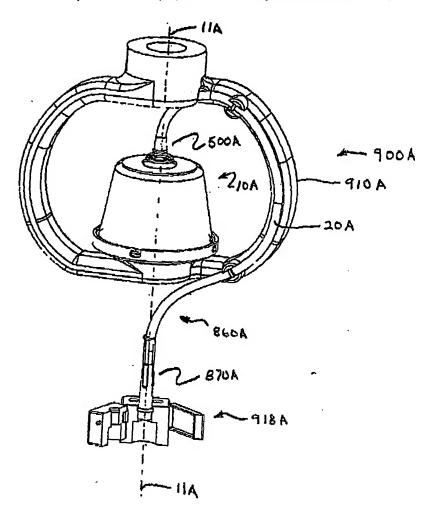
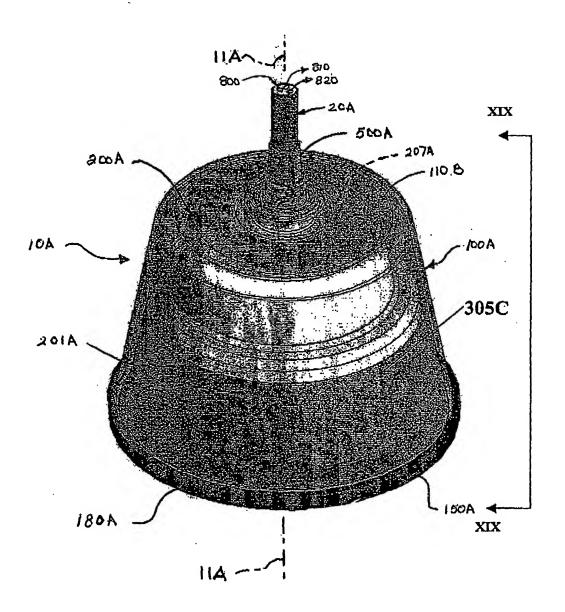


FIG. 35

DOCKET NO.: THR5007 Sheet 36 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333



DOCKET NO.: THR5007 Sheet 37 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622

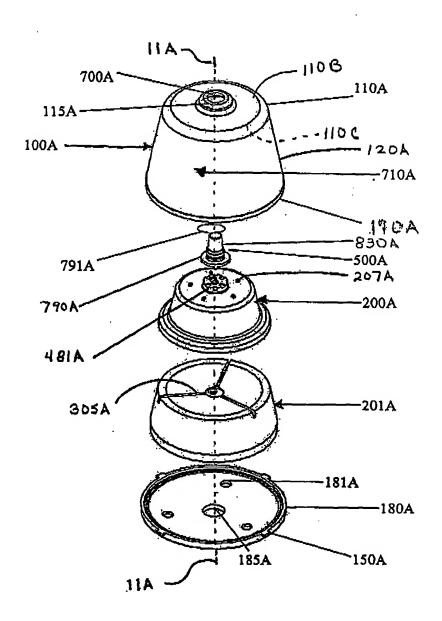


FIG. 37

DOCKET NO.: THR5007 Sheet 38 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith

Attorney: Michael B. Fein, 25,333

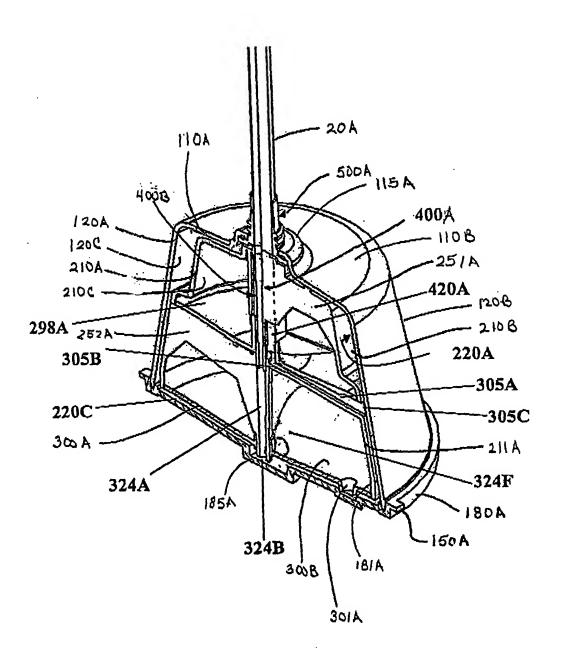


FIG. 38

DOCKET NO.: THR5007 Sheet 39 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

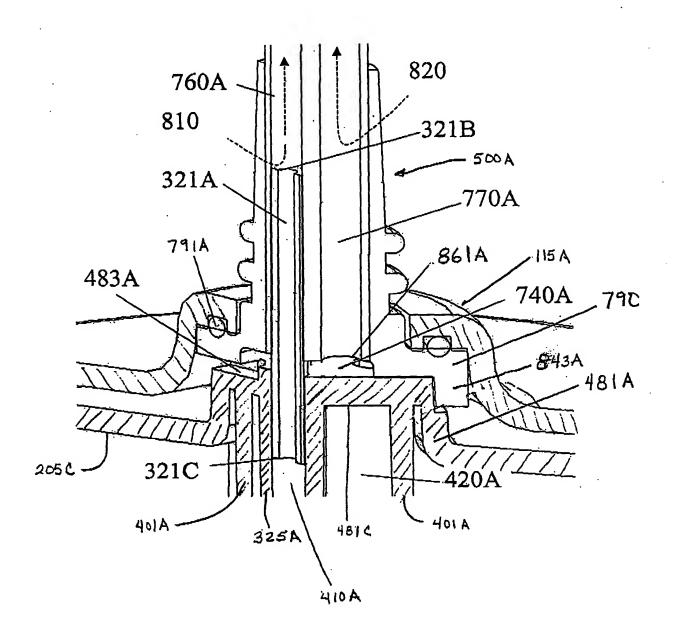


FIG. 39A

DOCKET NO.: THR5007 Sheet 40 of 54 Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE SAME Filing Date: Herewith Attorney: Michael B. Fein, 25,333

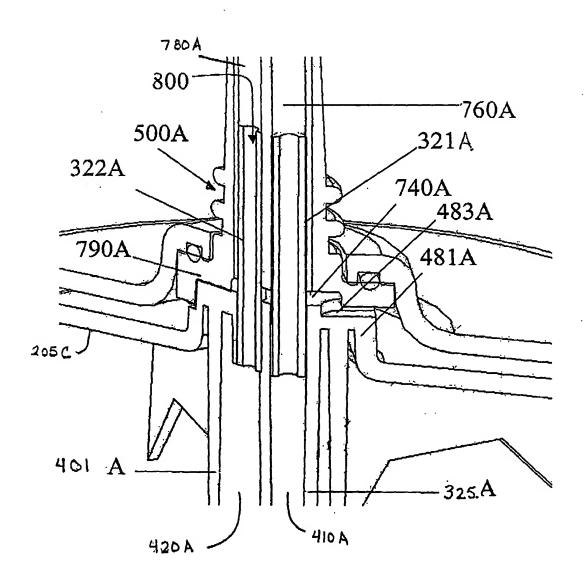


FIG. 39B

DOCKET NO.: THR5007 Sheet 41 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

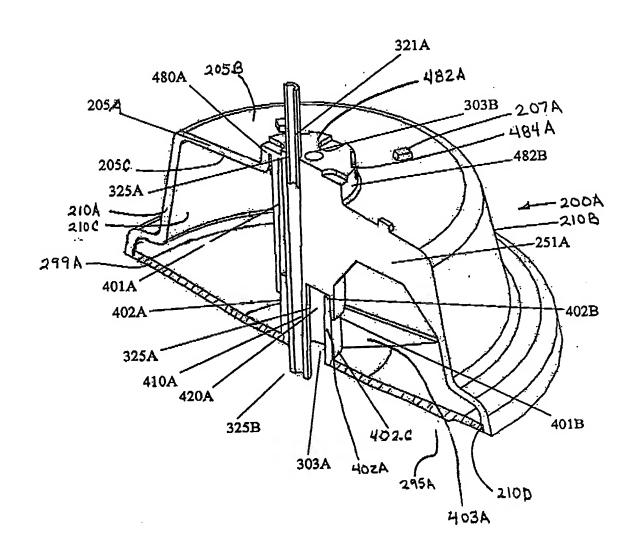


FIG. 40

DOCKET NO.: THR5007 Sheet 42 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters, Dennis Briggs, Mike Hutchinson, Scott P. Martin Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

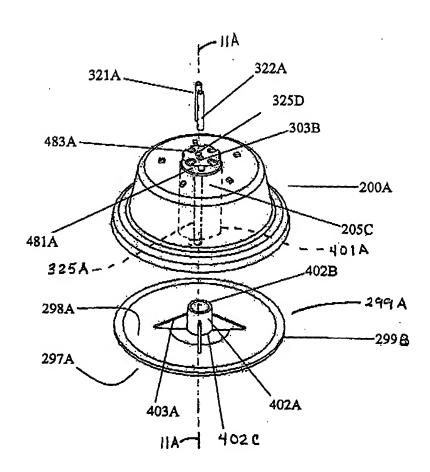


FIG. 41

DOCKET NO.: THR5007 Sheet 43 of 54
Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME
Filing Date: Herewith
Attorney: Michael B. Fein, 25,333 Atty Phone 215 665-4622

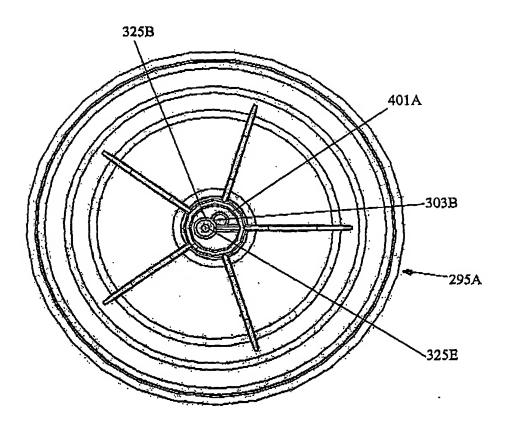
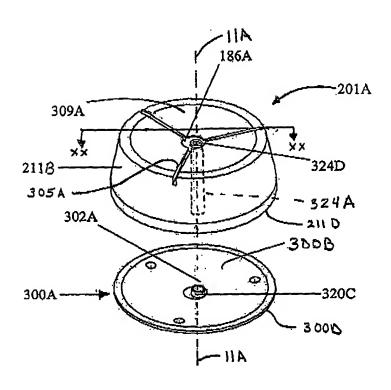


FIG. 42

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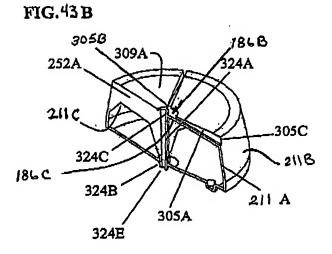


FIG. 43A

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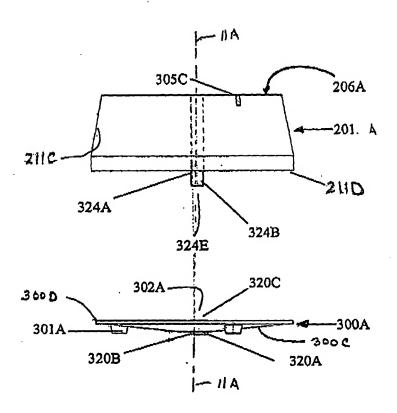


FIG. 44

DOCKET NO.: THR5007 Sheet 46 of 54 Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,

Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
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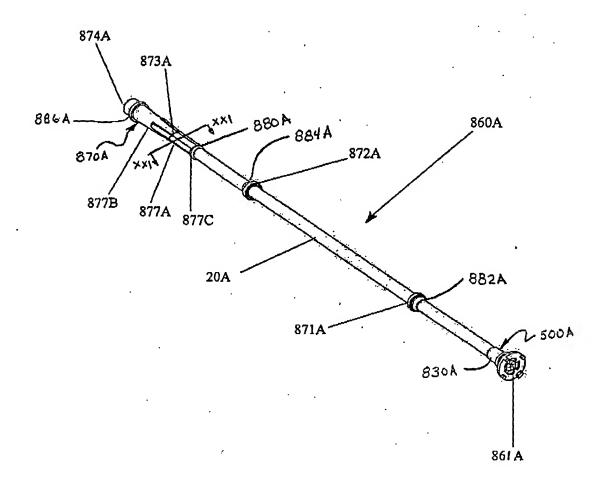


FIG. 45

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Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
SAME

Filing Date: Herewith Attorney: Michael B. Fein, 25,333

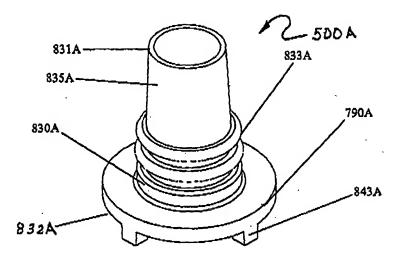


FIG. 46

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Inventor: GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
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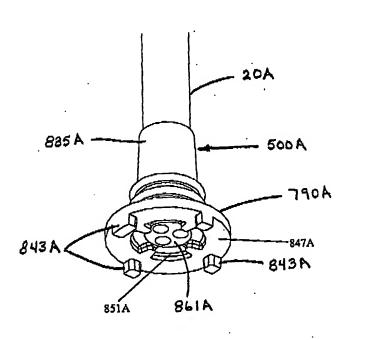


FIG. 47

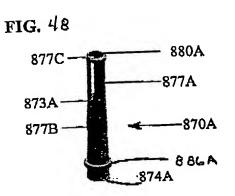


FIG. 48

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FIG. 49

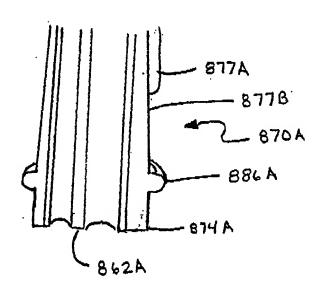
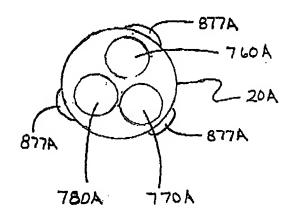
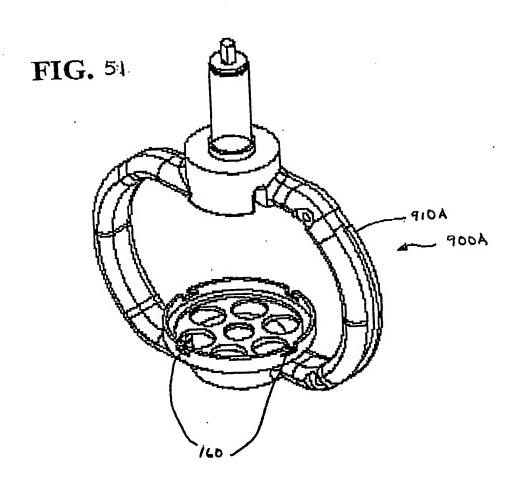


FIG. 50



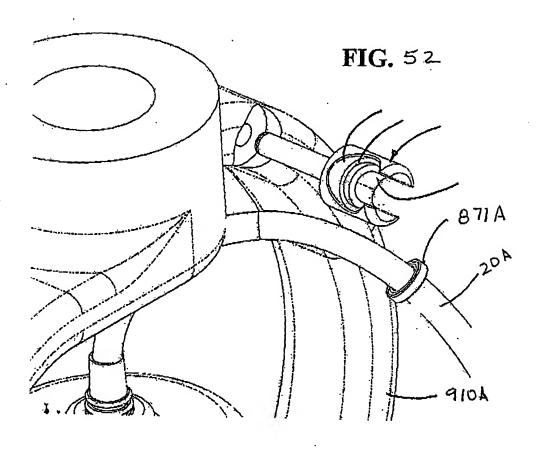
DOCKET NO.: THR5007 Sheet 50 of 54
Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
Title: BLOOD SEPARATION APPARATUS AND METHOD OF USING THE
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Inventor:GeraldO'Hara, Steve Gara, Christian E. Thorne, Tom Watters,
Dennis Briggs, Mike Hutchinson, Scott P. Martin
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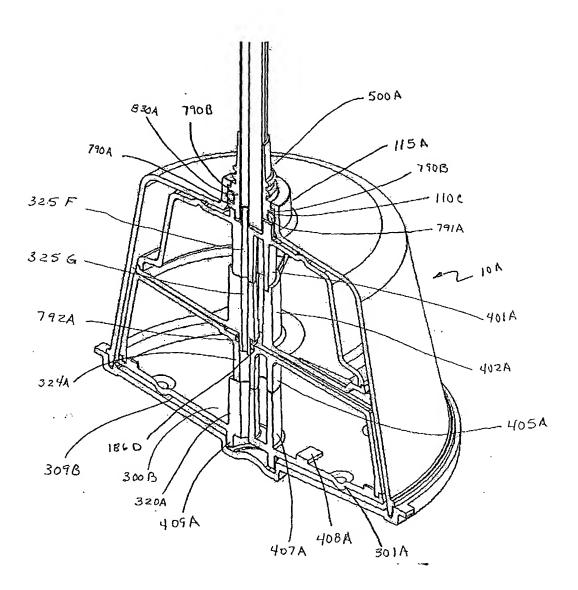
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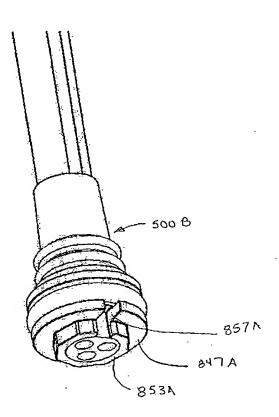


FIG. 54

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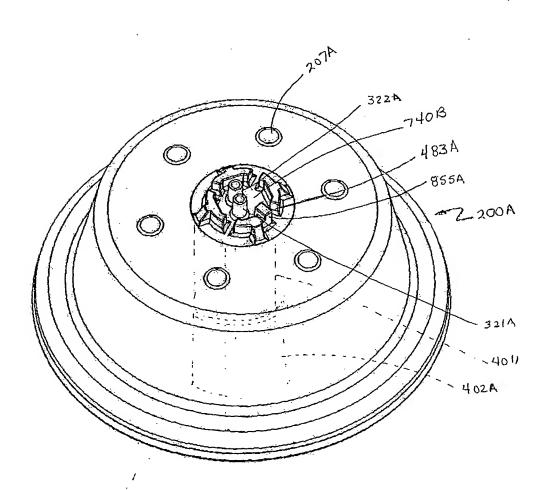


FIG. 55